

ABSTRACT

[PROBLEMS] To provide a metallized non-oxide ceramic shaped article having high adhesive strength between a metal layer and a substrate and the adhesion durability and to provide a process for producing the same.

[MEANS FOR SOLVING PROBLEMS] The process for producing a metallized shaped article includes: a heating step of heating a non-oxide ceramic shaped article to a temperature at or above a temperature, which is 300°C below the oxidation start temperature of the non-oxide ceramics, without substantial dissolution of oxygen in a solid solution form during heating; an oxidation step of bringing the non-oxide ceramic substrate heated in the heating step into contact with an oxidizing gas and then holding the non-oxide ceramic substrate at a temperature above the oxidation start temperature of the non-oxide ceramics to oxidize the surface of the non-oxide ceramic shaped article and thus to form an oxide layer on the surface of the non-oxide ceramic substrate; and a metallization step of forming a metal layer on the surface of the oxide layer in the non-oxide ceramic shaped article having an oxide layer on its surface produced in the oxidation step.